

Title (en)
ROTATING CUTTER, ESPECIALLY FOR A PLASTIC GRANULATOR

Publication
EP 0266447 B1 19900530 (DE)

Application
EP 86115293 A 19861105

Priority
EP 86115293 A 19861105

Abstract (en)
[origin: EP0266447A1] 1. A rotary cutting tool, more particularly for the continuous granulation of plastics, having a cylindrical tool body (1, 100) formed with a number of longitudinal grooves (2) uniformly distributed in the peripheral direction, each of which contains a releasably inserted, strip-like cutting element (6, 6a, 6b) and a clamping element (7) of wedge shaped cross-section which is disposed in the space, tapering in wedge shape in the direction of the periphery of the tool body (1), between a bearing surface (12) of the cutting element and the side wall (13) of the longitudinal groove opposite said bearing surface and has in cross-section a matching wedge shape tapering in the same direction and is pressed radially outwards by clamping means (16; 17; 18; 22) borne in the zone of the bottom (15) of the longitudinal groove into the space tapering in wedge shape, so that the cutting element is clamped via a clamping surface (11) remote from the clamping element against a seating surface (5) in the zone of the longitudinal groove, characterized in that that part of the cutting element which extends into the longitudinal groove in the tool body or in a member (35) connected thereto and is bounded by the clamping and bearing surfaces (11, 12) has a substantially wedge shaped cross-section tapering in the direction of the periphery of the tool body (1, 100) and having a maximum width smaller than the opening width of the longitudinal groove, and the tool body or the member (35) connected thereto has a bearing surface (14, 140) for the cutting element which determines the radial position of the cutting element.

IPC 1-7
B02C 18/18

IPC 8 full level
B02C 18/18 (2006.01)

CPC (source: EP)
B02C 18/186 (2013.01)

Cited by
EP0377060A1; CN103120977A; US5042733A; DE102006042255A1; DE102006042255B4; EP0344348A1; US4930710A; US6533200B2

Designated contracting state (EPC)
AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)
EP 0266447 A1 19880511; EP 0266447 B1 19900530; AT E53178 T1 19900615; DE 3671605 D1 19900705

DOCDB simple family (application)
EP 86115293 A 19861105; AT 86115293 T 19861105; DE 3671605 T 19861105